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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/576,422	05/22/2000	Michel Schneider	1889-33	2399
35743	7590 06/08/2006		EXAMINER	
KRAMER LEVIN NAFTALIS & FRANKEL LLP INTELLECTUAL PROPERTY DEPARTMENT 1177 AVENUE OF THE AMERICAS			AHMED, AAMER S	
			ART UNIT	PAPER NUMBER
NEW YORK	K, NY 10036	3763		
			DATE MAILED: 06/08/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant/a)				
	Application No.	Applicant(s)				
Office Action Summany	09/576,422	SCHNEIDER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Aamer S. Ahmed	3763				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 20 Ma	arch 2006					
	action is non-final.					
		secution as to the merits is				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-9,22-34 and 39-42</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
Claim(s) is/are allowed.						
5)⊡ Claim(s)is/are allowed. 6)⊠ Claim(s) <u>1-6,9, 22-34 and 39-42</u> is/are rejected.						
7)⊠ Claim(s) <u>7 and 8</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) Ine oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/204,067. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 09/16/2005	4)	(PTO-413)				

Application/Control Number: 09/576,422

Art Unit: 3763

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: the specification fails include a claim of priority to the parent case of which is it is a divisional, nor the foreign priority that the parent application claims priority to.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-6, 9, 22-27, 39 and 41 are rejected under 35 U.S.C. 103(a) as being obvious over Pokras U.S. Patent Number 5,647,851 in view of Schneider et al U.S. Patent Number 5,686,060.

Pokras discloses a method of administering by injection a suspension by means of an injected system (16) comprising a syringe (14) containing the suspension and a power driven piston (48) for injecting the suspension into a patient comprising by subjecting the suspension in the syringe to a alternated rotation or rocking motion, and wherein the motion is provided by outside means (16); and wherein the motion is alternated, applied along or around the syringe longitudinal or transverse axis and the syringe is subject to continuous or intermittent rotation at 0.5 to 200 rpm (col. 8 lines 41-55). Furthermore, Pokras teaches that the motion is carried out stepwise (col. 9 lines 28-31), and the suspension is a contrast agent for ultrasonic imaging of patients.

Pokras fails to explicitly disclose that the method is for suspension of microparticles homogeneously distributed in an aqueous solution, nor that the type of gas or composition of the surfactant and polymers.

Schneider et al discloses a similar method in which is disclosed a method for suspension of microparticles (col. 5 line 23), and that the gas is a halogenated gas CF₄, the gas is nitrogen (col. 6 line 60), the surfactant is a saturated phospholipids in a lamellar or laminar flow (col. 4 line 63). It would have been obvious to one having ordinary skill in the art at the time of invention by applicant to modify the method of Pokras by incorporating the compositions as described by Schneider et al in order to create more stable microbubbles (col. 3 line 39).

Claims 28-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pokras and Schneider et al and further in view of Unger et al U.S. Patent Number 6,028,066.

Pokras in view of Schneider et al disclose the method as described above in reference to claim 24 but fail to explicitly disclose the fatty acid residue and the composition of the membrane.

Unger et al discloses a similar method in which one of the phospholipids is a diacylphophatidyl, the polymer of the membrane is selected from polyglycolic acid, the material envelope of the microballoon is made from albumin, bounded by saturated triglycerides.

It would have been obvious to one having ordinary skill in the art at the time of invention by applicant to modify the method of Pokras and Schneider et al by incorporating the compositions as taught by Unger et al in order to increase the signal received from micobubbles and decrease background tissue signals.

Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pokras in view of Schneider et al and Unger ('066) and further in view of Unger U.S. Patent Number 5,334,381.

The above-mentioned references disclose the method as described above in reference to claim 32, but fail to disclose that the liposomes are filled with an iodinated compound.

Unger ('381) discloses a similar method in which the liposomes are filled with an iodinated compound (col. 8 line 21). It would have been obvious to one having ordinary skill in the art at the time of invention by applicant to modify the method of Pokras, Schneider et al and Unger ('066) by incorporating the compositions as taught by Unger ('381) in order to better detect tumors in the liver (col. 8 line 21).

Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pokras in view of

Schneider et al and Unger ('066) and Unger ('381) and further in view of Minchey et al U.S.

Patent Number 5,415,867. The above-mentioned references disclose the method as described above in reference to claim 33, but fail to disclose that the iodine over lipid ratio is 3 or more.

Minchey discloses a similar method in which the iodine over lipid ratio is 3 or more (see table 1). It would have been obvious to one having ordinary skill in the art at the time of invention by applicant to modify the method of Pokras, Schneider et al and Unger ('066), and '381) by incorporating the compositions as taught by Minchey in order for better contrast agent detection.

Claims 40 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pokras in view of Schneider et al and further in view of Unger ('381). Pokras in view of Schneider, discloses the method as described above in reference to claims 39 and 41, but fails to explicitly disclose that the organ imaged is the liver.

Unger ('381) discloses a similar method in which the organ imaged is the liver (col. 14 line 23). It would have been obvious to one having ordinary skill in the art at the time of invention by the applicant to modify the device of Pokras by incorporating the step of imaging the liver as described by Unger ('381).

Allowable Subject Matter

Claims 7 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

Applicant's arguments with respect to claims 1-9, 22-34, 39-42 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aamer S. Ahmed whose telephone number is 571-272-5965. The examiner can normally be reached on Monday thru Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nicholas Lucchesi can be reached on 571-272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A. Ahmed

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